

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: 37697-0003

Applicant: Edward W. MERRILL *et al.*

Appl. No.: 09/572,324

Examiner: C. Koh

Filing Date: May 18, 2001

Art Unit: 3738

Title: RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT
POLYETHYLENE PROSTHETIC DEVICES

**REVOCATION OF PRIOR POWERS OF ATTORNEY BY ASSIGNEE
APPOINTMENT OF NEW POWER OF ATTORNEY BY ASSIGNEE
CHANGE OF CORRESPONDENCE ADDRESS**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The General Hospital Corporation and Massachusetts Institute of Technology are the assignees of the captioned application, which is continuation of U.S. Serial No. 08/798,638, and all continuing applications thereof, as evidenced by the Assignments recorded in the U.S. Patent and Trademark Office on June 25, 1997 at Reel 8575, Frame 0093, September 18, 1997 at Reel 8713, Frame 0659, and September 18, 1997 at Reel 8713, Frame 0710. The General Hospital Corporation and Massachusetts Institute of Technology, through its duly-delegated representative, hereby revokes all prior Powers of Attorney submitted in this application, and hereby appoints the following registered attorneys and agents of the law firm of HELLER EHRMAN WHITE & MCAULIFFE:

John P. Isacson
Patricia D. Granados
Colin G. Sandercock

Reg. No. 33,715
Reg. No. 33,683
Reg. No. 31,298

as its principal attorneys to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, to

transact all business in the United States Patent and Trademark Office connected therewith, and to have full power of substitution, association, and revocation, including the power to revoke the power of attorney of any associate attorney.

Please direct all future correspondence concerning this application to:

John P. Isacson
HELLER EHRMAN WHITE & MCAULIFFE
815 Connecticut Avenue, NW, Suite 200
Washington, DC 20006-4004
Phone: (202) 263-8900
Fax: (202) 785-8877

The General Hospital Corporation

By:

(Signature)

(Printed Name)

(Title)

Executed this ____ day of _____, 2000.

Massachusetts Institute of Technology

By:



(Signature)

**JOHN H. TURNER, JR.
ASSOCIATE DIRECTOR
TECHNOLOGY LICENSING OFFICE**

(Title)

Executed this 22 day of March, 2000 2001.

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES

the specification of which is attached hereto unless the following is checked:

[✓] was filed on February 11, 1997, as United States Application No. 08/798,638 or PCT International Application No. _____, bearing Attorney Docket No. _____, and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or section 365(a) of any PCT International application designating at least one country other than the United States listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign PCT International Application(s) and any priority claims under 35 U.S.C. §§119 and 365(a), (b)

			Priority Claimed	
			[]	[]
			YES	NO
_____ (Number)	_____ (Country-if PCT, so indicate)	_____ (DD/MM/YY Filed)		

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

_____ (Application Number)	_____ (filing date)
-------------------------------	------------------------

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

<u>08/600,744</u> (Application No.)	<u>Feb. 13, 1996</u> (filing date)	<u>pending</u> (status-patented, pending, abandoned)
<u>08/726,313</u> (Application No.)	<u>Oct. 2, 1996</u> (filing date)	<u>pending</u> (status-patented, pending, abandoned)

PCT International Applications designating the United States:

_____ (PCT Appl. No.)	_____ (U.S. Ser. No.)	_____ (PCT filing date)	_____ (status-patented, pending, abandoned)
--------------------------	--------------------------	----------------------------	--

Ronald E. Cahill	Reg. No. 38,403	Christopher S. Daly	Reg. No. 37,303
John Christopher	Reg. No. 37,596	William C. Geary III	Reg. No. 31,359
Judith C. Crowley	Reg. No. 35,091	Helen A. Greer	Reg. No. 36,816
Paul D. Durkee	Reg. No. P-41,003		

Helen Greer
c/o Nutter, McClennen & Fish, LLP
One International Place
Boston, MA 02110-2699

Edward W. Merrill
 Inventor's signature
 Full name of first inventor Edward W. Merrill
 Citizenship United States
 Residence 90 Somerset Street, Belmont, MA 02178
 Post Office Address 90 Somerset Street, Belmont, MA 02178

May 22 1997
Date

Inventor's signature _____
Full name of second inventor William H. Harris
Citizenship United States
Residence 665 Concord Avenue, Belmont, MA 02178
Post Office Address 665 Concord Avenue, Belmont, MA 02178

Date _____

Inventor's signature
Full name of third inventor Murali Jasty
Citizenship United States
Residence 73 Chestnut Street, Weston, MA 02193
Post Office Address 73 Chestnut Street, Weston, MA 02193

Date _____

Inventor's signature
Full name of fourth inventor Orhun Muratoglu
Citizenship Turkey
Residence 3 Dana Street #8, Cambridge, MA 02138
Post Office Address 3 Dana Street #8, Cambridge, MA 02138

Date _____

Inventor's signature
Full name of fifth inventor Charles R. Bragdon
Citizenship United States
Residence 1156 Pleasant Street, Weymouth, MA 02189
Post Office Address 1156 Pleasant Street, Weymouth, MA 02189

Date _____

Inventor's signature
Full name of sixth inventor Daniel O. O'Connor
Citizenship United States
Residence 58 Steven Street, East Taunton, MA 02718
Post Office Address 58 Steven Street, East Taunton, MA 02718

Date _____

Inventor's signature
Full name of seventh inventor Premnath Venugopalan
Citizenship India
Residence 170 Webster Avenue, Cambridge, MA 02141
Post Office Address 170 Webster Avenue, Cambridge, MA 02141

Date _____

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Ronald E. Cahill	Reg. No. 38,403	Christopher S. Daly	Reg. No. 37,303
John Christopher	Reg. No. 37,596	William C. Geary III	Reg. No. 31,359
Judith C. Crowley	Reg. No. 35,091	Helen A. Greer	Reg. No. 36,816
Paul D. Durkee	Reg. No. P-41,003		

Address all telephone calls to Helen Greer at telephone no. (617) 439-2781. Address all correspondence to

Helen Greer
c/o Nutter, McClennen & Fish, LLP
One International Place
Boston, MA 02110-2699

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's signature
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Date


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Date

2 JUNE 97

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Date

Edward W. Merrill

6/5/97
Date

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Full name of second inventor William H. Harris
Citizenship United States
Residence 665 Concord Avenue, Belmont, MA 02178
Post Office Address 665 Concord Avenue, Belmont, MA 02178

Date

William H. Harris

6/10/97
Date

Inventor's signature
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Citizenship United States
Residence 73 Chestnut Street, Weston, MA 02193
Post Office Address 73 Chestnut Street, Weston, MA 02193

Date

Murali Jasty

6/10/97
Date

Inventor's signature
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Citizenship Turkey
Residence 3 Dana Street #8, Cambridge, MA 02138
Post Office Address 3 Dana Street #8, Cambridge, MA 02138

Date

Orhun Muratoglu

6/12/97
Date

Inventor's signature
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Citizenship United States
Residence 1156 Pleasant Street, Weymouth, MA 02189
Post Office Address 1156 Pleasant Street, Weymouth, MA 02189

Date

Charles R. Bragdon

6/10/97
Date

Inventor's signature
Full name of sixth inventor Daniel O. O'Connor
Citizenship United States
Residence 58 Steven Street, East Taunton, MA 02718
Post Office Address 58 Steven Street, East Taunton, MA 02718

Date

Daniel O'Connor

JD

Inventor's signature
Full name of seventh inventor Premnath Venugopalan
Citizenship India
Residence 170 Webster Avenue, Cambridge, MA 02141
Post Office Address 170 Webster Avenue, Cambridge, MA 02141

Date



Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

OCTOBER 27, 1997

PTAS

NUTTER, MCCLELENNEN & FISH, LLP
HELEN GREER
ONE INTERNATIONAL PLACE
BOSTON, MA 02110



100543670A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/18/1997

REEL/FRAME: 8713/0659
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HARRIS, WILLIAM H.

DOC DATE: 07/01/1997

ASSIGNEE:

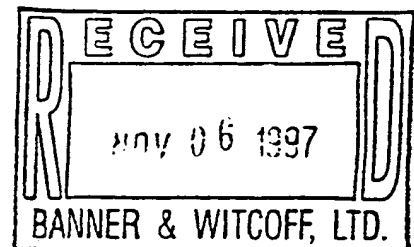
GENERAL HOSPITAL CORPORATION, THE
FRUIT STREET
BOSTON, MASSACHUSETTS 02114

SERIAL NUMBER: 08798638

PATENT NUMBER:

FILING DATE: 02/11/1997
ISSUE DATE:

DOROTHY RILEY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS





ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20531

OCTOBER 27, 1997

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NUTTER, MCCLENNEN & FISH, LLP
HELEN GREER
ONE INTERNATIONAL PLAZA
BOSTON, MA 02110



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UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 09/16/1997

REEL/FRAME: 8713/0710
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HARRIS, WILLIAM H.

DOC DATE: 06/05/1997

ASSIGNOR:

JASTY, MURALI

DOC DATE: 06/10/1997

ASSIGNOR:

MURATOGLU, ORHUN

DOC DATE: 06/10/1997

ASSIGNOR:

BRAGDON, CHARLES R.

DOC DATE: 06/12/1997

ASSIGNOR:

O'CONNOR, DANIEL O.

DOC DATE: 06/10/1997

ASSIGNEE:

GENERAL HOSPITAL CORPORATION, THE
FRUIT STREET
BOSTON, MASSACHUSETTS 02114

FILING DATE: 02/11/1997

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

[Faint, illegible handwritten notes or bleed-through from the reverse side of the page.]



JULY 30, 1997

PTAS

NUTTER, MCCLENNEN & FISH, LLP
HELEN GREER
ONE INTERNATIONAL PLACE
BOSTON, MA 02110



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RECORDATION DATE: 06/25/1997

REEL/FRAME: 8575/0093
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MERRILL, EDWARD W.

DOC DATE: 05/22/1997

ASSIGNOR:

VENUGOPALAN, PREMNATH

DOC DATE: 06/02/1997

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
77 MASSACHUSETTS AVENUE
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 08798638

FILING DATE: 02/11/1997

PATENT NUMBER:

ISSUE DATE:

LAWAN FLETCHER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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BY
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TOBER 27, 1997

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INTER, MCCLENNEN & FISH, LLP
LEN GREER
E INTERNATIONAL PLAZA
STON, MA 02110



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RECORDATION DATE: 09/16/1997

REEL/FRAME: 8713/0710
NUMBER OF PAGES: 4

TYPE OF ASSIGNMENT: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

SIGNOR:

HARRIS, WILLIAM H.

DOC DATE: 06/05/1997

SIGNOR:

JASTY, MURALI

DOC DATE: 06/10/1997

SIGNOR:

MURATOGLU, ORHUN

DOC DATE: 06/10/1997

SIGNOR:

BRAGDON, CHARLES R.

DOC DATE: 06/12/1997

SIGNOR:

O'CONNOR, DANIEL O.

DOC DATE: 06/10/1997

SIGNEE:

GENERAL HOSPITAL CORPORATION, THE
FRUIT STREET
BOSTON, MASSACHUSETTS 02114

SERIAL NUMBER: 08798638

ATTENT' NUMBER :

FILING DATE: 2/11/1997

ISSUE DATE:

HAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

[illegible]

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned William H. Harris, Murali Jasty, Orhun Muratoglu, Charles R. Bragdon, and Daniel O. O'Connor hereby

Sell, assign and transfer to The General Hospital Corporation, a Massachusetts corporation having a place of business at Fruit Street, Boston, Massachusetts 02114, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Name of conveying party(ies):

William H. Harris

Is name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Mode of conveyance:

Assignment ☐ Merger

Security Agreement ☐ Change of Name

Other _____

Effective Date: July 1, 1997

2. Name and address of receiving party(ies)

Name: The General Hospital Corporation

Internal Address: _____

Street Address: Fruit Street

City: Boston State: MA ZIP: 02114

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Patent number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

08/798,638

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

Name and address of party to whom correspondence concerning this document should be mailed:

Helen Greer

Address: 23160-33

Greer, McClennen & Fish, LLP

Address: One International Place

Boston State: MA ZIP: 02110

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

14/1449

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

Signature and signature.

I, best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.

Helen Greer

Name of Person Signing

Signature

Sept. 16, 1997

3

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20540

09/26/1997
01 F013818

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned Edward W. Merrill and Premnath Venugopalan hereby

Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

ettings 000 ▼

To the Honorable Commissioner of F

100449665

attached original documents or copy thereof.

ne of conveying party(ies):

Edward W. Merrill
Premnath Venugopalan

al name(s) of conveying party(ies) attached? ☐ Yes ☒ No

ure of conveyance:

Assignment

☐ Merger

Security Agreement

☐ Change of Name

Other _____

ion Date: 5/22/97 and 6/2/97

2. Name and address of receiving party(ies)

Name: Massachusetts Institute of
Technology

Internal Address: _____

Street Address: 77 Massachusetts Avenue

City: Cambridge State: MA ZIP: 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

lication number(s) or patent number(s):

is document is being filed together with a new application, the execution date of the application is: _____

Patent Application No.(s)

08/798,638

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

ie and address of party to whom correspondence
cerning document should be mailed:

ie: Helen Greer

nal Address: 23160-33

tter, McClennen & Fish, LLP

et Address: One International Place

Boston State: MA ZIP: 02110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

14/1499

(Attach duplicate copy of this page if paying by deposit account)

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iment and signature.

ie best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of
original document.

Helen Greer

Name of Person Signing

Helen Greer

Signature

June 20, 1997

Date

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required cover sheet information to:

U.S. Serial No. 09/572,324

Massachusetts Institute of Technology

By:

(Signature)

(Printed Name)

(Title)

Executed this _____ day of _____, 2000.

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned Edward W. Merrill and Premnath Venugopalan hereby

Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: May 22 1997

Edward W Merrill
EDWARD W. MERRILL

STATE OF Massachusetts :
COUNTY OF Middlesex :

Subscribed and sworn to before me this 22 day of May, 1997.

SEAL

Carol A. Phillips
Notary Public
CAROL A. PHILLIPS
NOTARY PUBLIC
MY COMMISSION EXPIRES MAY 23, 1997

Dated: _____

PREMNATH VENUGOPALAN

STATE OF _____ :
COUNTY OF _____ :

Subscribed and sworn to before me this _____ day of _____, 1997.

SEAL

Notary Public

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned Edward W. Merrill and Premnath Venugopalan hereby

Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

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Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: _____

EDWARD W. MERRILL

STATE OF _____:
COUNTY OF _____:

Subscribed and sworn to before me this _____ day of _____, 1997.

SEAL

Notary Public

Dated: 2 JUNE 97

PREMNATH VENUGOPALAN

PREMNATH V.
1253, GOLDEN COLONY
MUGAPPAR
CHENNAI - 600 050
INDIA

STATE OF TAMIL NADU, INDIA:
COUNTY OF MADRAS:

Subscribed and sworn to before me this the 2nd day of June, 1997.

SEAL

Notary Public

119123_1.WP6



R. NATARAJAN
Notary & Commissioner of Oaths
No. 14, Law Chambers
Club Court. Madras-600 182

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned William H. Harris, Murali Jasty, Orhun Muratoglu, Charles R. Bragdon, and Daniel O. O'Connor hereby

Sell, assign and transfer to The General Hospital Corporation, a Massachusetts corporation having a place of business at Fruit Street, Boston, Massachusetts 02114, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: 7/1/97

W Harris
WILLIAM H. HARRIS

STATE OF Massachusetts:
COUNTY OF Suffolk:

Subscribed and sworn to before me this 14 day of July, 1997.

SEAL

Elsie M. Willant
Notary Public

ELSIE M. WILLANT

Notary Public

My Commission Expires April 12, 2002

Dated: _____

MURALI JASTY

STATE OF _____:
COUNTY OF _____:

Subscribed and sworn to before me ths _____ day of _____, 1997.

SEAL

Notary Public

Dated: _____

ORHUN MURATOGLU

STATE OF _____:
COUNTY OF _____:

Subscribed and sworn to before me ths _____ day of _____, 1997.

SEAL

Notary Public

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned William H. Harris, Murali Jasty, Orhun Muratoglu, Charles R. Bragdon, and Daniel O. O'Connor hereby

Sell, assign and transfer to The General Hospital Corporation, a Massachusetts corporation having a place of business at Fruit Street, Boston, Massachusetts 02114, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed February 11, 1997 under Serial No. 08/798,638 and entitled RADIATION AND MELT TREATED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PROSTHETIC DEVICES, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Covenant with said assignee that no assignment, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

Dated: 6/15/97

W Harris
WILLIAM H. HARRIS

STATE OF Massachusetts :
COUNTY OF Suffolk :

Subscribed and sworn to before me this 6 day of June, 1997.

SEAL

Elsie M. Willant
Notary Public
ELSIE M. WILLANT
Notary Public
My Commission Expires April 12, 2002

Dated: 6/10/97

Murali Jasty
MURALI JASTY

STATE OF MASSACHUSETTS :
COUNTY OF Suffolk :

Subscribed and sworn to before me this 10 day of JUNE, 1997.

SEAL

Richard J. Chevrete
Notary Public
RICHARD J. CHEVRETTE
Notary Public
My Commission Expires July 3, 1998

Dated: 6/10/97

Orhan Muravoglu
ORHAN MURAVOGLU

STATE OF MASSACHUSETTS :
COUNTY OF Suffolk :

Subscribed and sworn to before me this 10 day of JUNE, 1997.

SEAL

Richard J. Chevrete
Notary Public
RICHARD J. CHEVRETTE
Notary Public
My Commission Expires July 3, 1998